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Therapeutic Targets of Neuroprotection and Neurorestauration in Ischemic Stroke

Guest Editor:

Prof. Dr. Arieh S Solomon
Sheba Medical Center, Tel Aviv University, Goldschleger Eye Research Institute, Tel Aviv-Yafo, Israel

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Message from the Guest Editor

Dear Colleagues,

Stroke is one of the leading causes of death and disability worldwide. The current treatment strategies for ischemic stroke primarily focus on reducing the size of ischemic damage and rescuing dying cells early after occurrence. The pathophysiology of strokes is complex and it involves excitotoxicity mechanisms, inflammatory pathways, oxidative damage, ionic imbalances, apoptosis, angiogenesis, neuroprotection, and neurorestoration.

Multiple factors such as excitotoxicity, inflammation, angiogenesis, and neurogenesis are the main pathological processes that underlie acute and chronic ischemic brain injury. Furthermore, their intimate interactions mediate blood–brain barrier permeability and increase neurovascular unit structural damage, as well as hemorrhagic transformation during an ischemic stroke.

Neuroprotective and neurorestorative therapy represent two major drug intervention strategies for ischemic strokes.

The aims and scope of this Special Issue are to enhance our knowledge concerning the therapeutic targets of neuroprotection and neurorestauration in ischemic stroke.

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Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience,
University of Pittsburgh,
Pittsburgh, PA 15260, USA

Message from the Editor-in-Chief

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Contact Us

Brain Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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